

STATE OF MISSOURI
DEPARTMENT OF NATURAL RESOURCES

MISSOURI CLEAN WATER COMMISSION



MISSOURI STATE OPERATING PERMIT

In compliance with the Missouri Clean Water Law, (Chapter 644 R.S. Mo. as amended, hereinafter, the Law), and the Federal Water Pollution Control Act (Public Law 92-500, 92nd Congress) as amended,

Permit No. MO-0002046

Owner: Missouri Department of Conservation (MDC)
Address: PO Box 180, Jefferson City, MO 65102

Continuing Authority: Same as above
Address: Same as above

Facility Name: MDC, Montauk Fish Hatchery
Address: Route 5, Box 280, Salem, MO 65560

Legal Description: See page 2

Receiving Stream: See page 2
First Classified Stream and ID: See page 2
USGS Basin & Sub-watershed No.: See page 2

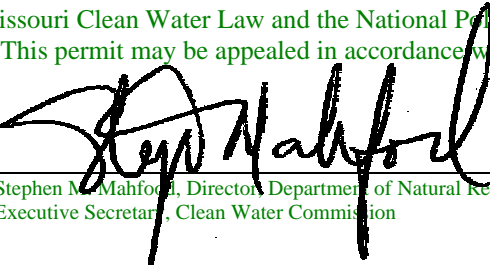
is authorized to discharge from the facility described herein, in accordance with the effluent limitations and monitoring requirements as set forth herein:

FACILITY DESCRIPTION

See page 2

This permit authorizes only wastewater discharges under the Missouri Clean Water Law and the National Pollutant Discharge Elimination System; it does not apply to other regulated areas. This permit may be appealed in accordance with Section 644.051.6 of the Law.

August 8, 2003
Effective Date


Stephen M. Mahford, Director, Department of Natural Resources
Executive Secretary, Clean Water Commission

August 7, 2008
Expiration Date
MO 780-0041 (10-93)

Jim Hull, Director of Staff, Clean Water Commission

FACILITY DESCRIPTION (continued)

Outfall 001 - Fish Hatchery - SIC #0921

Hatchery building/raceway/settling/sludge is land applied.

Design Flow 2,110,000 gallons per day.

Actual Flow 1,360,000 gallons per day.

Design sludge production is 0.7 dry tons/year.

Legal Description: SE ¼, SE ¼, Sec. 22, T32N, R7W, Dent County

Receiving Stream: Tributary to Bluff Spring Branch (U)

First Classified Stream and ID: Current River (P) (02662)

USGS Basin & Sub-watershed No.: (11010008-010005)

Outfall 002 - Fish Hatchery - SIC #0921

Rearing raceway/settling/sludge is land applied.

Design Flow 26,040,000 gallons per day.

Actual Flow 16,800,000 gallons per day.

Design sludge production is 11.1 dry tons/year.

Legal Description: NW ¼, NW ¼, Sec. 27, T32N, R7W, Dent County

Receiving Stream: Current River (P)

First Classified Stream and ID: Current River (P) (02662)

USGS Basin & Sub-watershed No.: (11010008-010005)

Outfall 003 - Fish Hatchery - SIC #0921

Rearing raceway/settling/sludge is land applied.

Design Flow 7,290,000 gallons per day.

Actual Flow 4,700,000 gallons per day.

Design sludge production is 1.5 dry tons/year.

Legal Description: SE ¼, SE ¼, Sec. 22, T32N, R7W, Dent County

Receiving Stream: Tributary to Bluff Spring Branch (U)

First Classified Stream and ID: Current River (P) (02662)

USGS Basin & Sub-watershed No.: (11010008-010005)

Outfall 004 - Fish Hatchery - SIC #0921

Hatchery building/ultraviolet disinfection of influent.

Design Flow 610,000 gallons per day.

Actual Flow 390,000 gallons per day.

Legal Description: SE ¼, SE ¼, Sec. 22, T32N, R7W, Dent County

Receiving Stream: Tributary to Bluff Spring Branch (U)

First Classified Stream and ID: Current River (P) (02662)

USGS Basin & Sub-watershed No.: (11010008-010005)

					PAGE NUMBER 3 of 5	
A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS					PERMIT NUMBER MO-0002046	
The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The final effluent limitations shall become effective upon issuance and remain in effect until expiration of the permit. Such discharges shall be controlled, limited and monitored by the permittee as specified below:						
OUTFALL NUMBER AND EFFLUENT PARAMETER(S)	UNITS	FINAL EFFLUENT LIMITATIONS			MONITORING REQUIREMENTS	
		DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE
<u>Outfalls #001, #003 & #004</u> (Note 1)						
Flow	MGD	*			once/quarter	24 hr. estimate
Biochemical Oxygen Demand ₅	mg/L	20		20	once/quarter	grab
pH - Units	SU	**		**	once/quarter	grab
Total Suspended Solids	mg/L	15		15	once/quarter	grab
Ammonia Nitrogen (Summer, May-October) (Winter, November-April)	mg/L	2.0 2.4		1.0 1.2	once/quarter	grab
Temperature	°C	*		*	once/quarter	grab
Copper, Total Recoverable	mg/L	0.04		0.02	once/quarter***	grab
Chloride	mg/L	376		187	once/quarter***	grab
<u>Outfall 002</u> (Note 1)						
Flow	MGD	*			once/month	24 hr. estimate
Biochemical Oxygen Demand ₅	mg/L	20		20	once/quarter	grab
pH - Units	SU	**		**	once/quarter	grab
Total Suspended Solids	mg/L	15		15	once/quarter	grab
Ammonia Nitrogen (Summer, May-October) (Winter, November-April)	mg/L	5.6 6.6		2.7 3.3	once/quarter	grab
Temperature	°C	*		*	once/quarter	grab
Copper, Total Recoverable	mg/L	0.12		0.06	once/quarter***	grab
MONITORING REPORTS SHALL BE SUBMITTED <u>QUARTERLY</u> ; THE FIRST REPORT IS DUE <u>October 28, 2003</u> . THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.						
B. STANDARD CONDITIONS						
IN ADDITION TO SPECIFIED CONDITIONS STATED HEREIN, THIS PERMIT IS SUBJECT TO THE ATTACHED <u>Parts I & III</u> STANDARD CONDITIONS DATED <u>October 1, 1980</u> and <u>August 15, 1994</u> , AND HEREBY INCORPORATED AS THOUGH FULLY SET FORTH HEREIN.						

MO 780-0010 (8/91)

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)

- * Monitoring requirement only.
- ** pH is measured in pH units and is not to be averaged. The pH is limited to the range of 6.5-9.0 pH units.
- *** When reporting for Chloride or Copper, if no Chloride or Copper bearing chemicals were used during the reporting period, report "0, none used". If Chloride or Copper bearing chemicals were used during the reporting period, report analysis as with other parameters.

Note 1 - Sampling shall coincide with raceway cleaning if cleaning occurs during the quarter.

C. SPECIAL CONDITIONS

1. This permit may be reopened and modified, or alternatively revoked and reissued, to:
 - (a) Comply with any applicable effluent standard or limitation issued or approved under Sections 301(b)(2)(C) and (D), 304(b)(2), and 307(a) (2) of the Clean Water Act, if the effluent standard or limitation so issued or approved:
 - (1) contains different conditions or is otherwise more stringent than any effluent limitation in the permit; or
 - (2) controls any pollutant not limited in the permit.
 - (b) Incorporate new or modified effluent limitations or other conditions, if the result of a waste load allocation study, toxicity test or other information indicates changes are necessary to assure compliance with Missouri's Water Quality Standards.
 - (c) Incorporate new or modified effluent limitations or other conditions if, as the result of a watershed analysis, a Total Maximum Daily Load (TMDL) limitation is developed for the receiving waters which are currently included in Missouri's list of waters of the state not fully achieving the state's water quality standards, also called the 303(d) list.

The permit as modified or reissued under this paragraph shall also contain any other requirements of the Clean Water Act then applicable.
2. All outfalls must be clearly marked in the field.
3. Report as no-discharge when a discharge does not occur during the report period.
4. General Criteria. The following water quality criteria shall be applicable to all waters of the state at all times including mixing zones. No water contaminant, by itself or in combination with other substances, shall prevent the waters of the state from meeting the following conditions:
 - (a) Waters shall be free from substances in sufficient amounts to cause the formation of putrescent, unsightly or harmful bottom deposits or prevent full maintenance of beneficial uses;
 - (b) Waters shall be free from oil, scum and floating debris in sufficient amounts to be unsightly or prevent full maintenance of beneficial uses;
 - (c) Waters shall be free from substances in sufficient amounts to cause unsightly color or turbidity, offensive odor or prevent full maintenance of beneficial uses;
 - (d) Waters shall be free from substances or conditions in sufficient amounts to result in toxicity to human, animal or aquatic life;
 - (e) There shall be no significant human health hazard from incidental contact with the water;
 - (f) There shall be no acute toxicity to livestock or wildlife watering;
 - (g) Waters shall be free from physical, chemical or hydrologic changes that would impair the natural biological community;
 - (h) Waters shall be free from used tires, car bodies, appliances, demolition debris, used vehicles or equipment and solid waste as defined in Missouri's Solid Waste Law, section 260.200, RSMo, except as the use of such materials is specifically permitted pursuant to section 260.200-260.247.
5. Sludge shall not be land applied within 300 feet of any pond, lake, sinkhole, losing stream, no-discharge stream, Ozark National Scenic Riverway, or outstanding state resource waters listed in 10 CSR 20-7.031; 150 feet of any dwelling; 100 feet of wetlands and permanent flowing streams; or 50 feet of a property line.
6. Drugs or chemicals may not be used in a manner inconsistent with label instructions. In no case shall the discharge of drugs or chemicals result in acute or chronic toxicity in the receiving stream. A Whole Effluent Toxicity test may be required to determine water quality impacts of the drug or chemical.

C. SPECIAL CONDITIONS (continued)

7. Sludge that is land applied shall be tested for total nitrogen content, and the results used to determine application rate. The sludge does not have to be re-tested unless there is reason to believe the nitrogen content has changed, such as if the facility has switched to a new kind of feed, or if requested by the department. The nitrogen application rate shall not exceed 150 pounds of total nitrogen per acre per year. If the applied sludge exceeds 150 pounds total nitrogen per acre/year, the permittee must reduce the application rates or submit a revised permit application to request use of the Plant Available Nitrogen method based on crop nitrogen requirements for harvested crops.
8. This permit authorizes the use of drugs or chemicals that have been approved by the USEPA except where the use of such a substance for aquaculture is not expressly indicated on the product label. Other drugs or chemicals may be used with prior approval from the department. Records of the use of drugs or chemicals must be maintained and available to the department upon request. Records must include the name of the chemical, reason for its use, date applied, effluent flow estimate and amount used. These records must be submitted to the department in an annual report.